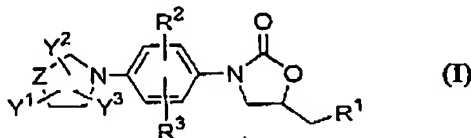


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**IN THE CLAIMS**

1. (Currently amended) A compound of the formula (I)



wherein

$R^1$  represents halo, azido, isothiocyanate, thioalcohol,  $OR^4$ ,  $NHR^4$  or  $N(R^4)_2$ , where  $R^4$  represents hydrogen atom, or substituted or unsubstituted groups selected from acyl, thioacyl,  $(C_1-C_6)$ alkoxycarbonyl,  $(C_3-C_6)$  cycloalkoxythiocarbonyl,  $(C_2-C_6)$ alkenyloxycarbonyl,  $(C_2-C_6)$ alkenylcarbonyl, aryloxycarbonyl,  $(C_1-C_6)$ alkoxythiocarbonyl,  $(C_2-C_6)$ alkenyloxythiocarbonyl, aryloxythiocarbonyl,  $-C(=O)-C(=O)-alkyl$ ,  $-C(=O)-C(=O)-aryl$ ,  $-C(=O)-C(=O)-alkoxy$ ,  $-C(=O)-C(=O)-aryloxy$ ,  $-(C=S)-S-alkyl$ ,  $-(C=S)-NH_2$ ,  $-(C=S)-NH-alkyl$ ,  $-C(=S)-N-(alkyl)_2$ ,  $-C(=S)-NH-alkenyl$ ,  $(C=S)-(C=O)-alkoxy$ ,  $-(C=S)-(C=O)-aryloxy$ ,  $-C(=S)-O-(C=O)-alkyl$ ,  $C(=S)-C(=S)-alkyl$ ,  $-C(=S)-C(=S)-aryl$ , thiomorpholinylthiocarbonyl or pyrrolidinylthiocarbonyl;

$R^2$  and  $R^3$  are same or different and independently represent hydrogen, halogen atom,  $(C_1-C_6)$ alkyl group, halo $(C_1-C_6)$ alkyl, cyano, nitro,  $SR^a$ ,  $NR^a$ ,  $OR^a$  where  $R^a$  represents substituted or unsubstituted  $(C_1-C_6)$ alkyl group, or halo $(C_1-C_6)$ alkyl;

Z represents  $S[[\text{ }]]$  or  $O$ ,  $=CH$  or  $NR^b$  where  $R^b$  represents hydrogen, or substituted or unsubstituted  $(C_1-C_6)$ alkyl,  $(C_2-C_6)$ alkenyl,  $(C_4-C_6)$ cycloalkyl,  $(C_1-C_6)$ alkoxy, aryl, aralkyl, aryloxy,  $(C_1-C_6)$ alkylcarbonyl, arylcarbonyl,  $(C_1-C_6)$ alkoxycarbonyl or aryloxycarbonyl;

$Y^1$  represents  $=O$  or  $=S$  group and  $Y^2$  and  $Y^3$  independently represent hydrogen, halogen, cyano, nitro, formyl, hydroxy, amino,  $=O$ ,  $=S$  group, or substituted or unsubstituted groups selected from  $(C_1-C_6)$ alkyl, hydroxy $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxy $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxycarbonyl, carboxy $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkylsulfonyl,  $(C_1-C_6)$ alkylcarbonylamino $(C_1-C_6)$ alkyl, arylcarbonylamino $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkylcarbonyloxy $(C_1-C_6)$ alkyl, amino $(C_1-C_6)$ alkyl, mono $(C_1-C_6)$ alkylamino, di $(C_1-C_6)$ alkylamino, arylamino,  $(C_1-C_6)$ alkoxy, aryl, aryloxy, aralkyl, heteroaryl, heteroaralkyl, heterocyclyl or heterocycloalkyl;

$Y^2$  and  $Y^3$  when present on adjacent carbon atoms together also

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form a substituted or unsubstituted 5 or 6 membered aromatic or non-aromatic cyclic structure, optionally containing one or two hetero atoms; ~~its derivatives, its analogs, its tautomeric forms,~~ its stereoisomers, its polymorphs, its pharmaceutically acceptable salts or its pharmaceutically acceptable solvates.

2. (Original) The compound according to claim 1, wherein the ~~substituents on R<sup>4</sup> are selected from halogen, hydroxy, amino, monoalkylamino, dialkylamino, cyano, nitro, alkoxy, aryl, hydroxyaryl, pyridyl, hydroxyalkyl, alkoxyaryl or carboxyl and its derivatives.~~

3. (Cancelled)

4. (Original) The compound according to claim 1, wherein the substituents on Y<sup>2</sup> and Y<sup>3</sup> are selected from hydroxy, nitro, cyano, amino, *tert*-butyldimethylsilyloxy (TBSO), halogen, (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, aryl, benzyloxy, acyl, carboxyl or acyloxy groups.

5. (Original) The compound according to claim 1, wherein the cyclic structure formed by Y<sup>2</sup> and Y<sup>3</sup> is selected from substituted or unsubstituted benzene, pyridine, pyrrolidine, furan, thiophene, morpholine, piperazine or pyrrole.

6. (Currently amended) A compound of the formula (I) as defined according to claim 1, which is selected from:

(5R)-3-[3-fluoro-4-(2-oxo-1,3-oxazolan-3-yl)phenyl]-5-hydroxymethyl-1,3-oxazolan-2-one or its salts;

(5R)-3-[3-fluoro-4-(2-thioxo-1,3-oxazolan-3-yl)phenyl]-5-hydroxymethyl-1,3-oxazolan-2-one or its salts;

(5R)-3-[3-fluoro-4-(2-thioxo-1,3-thiazolan-3-yl)phenyl]-5-hydroxymethyl-1,3-oxazolan-2-one or its salts;

(5R)-3-[3-fluoro-4-(3-methyl-2-thioxo-1-imidazolidinyl)phenyl]-5-hydroxymethyl-1,3-oxazolan-2-one or its salts;

3-{2-fluoro-4-[(5R)-5-hydroxymethyl-2-oxo-1,3-oxazolan-3-yl]phenyl}-2,3-dihydrobenzo [d][1,3]oxazol-2-one or its salts;

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3-{2-fluoro-4-[(5R)-5-hydroxymethyl-2-oxo-1,3-oxazolan-3-yl]phenyl}-6-methyl-2,3-dihydrobenzo[d][1,3]oxazol-2-one or its salts;

3-{2-fluoro-4-[(5R)-5-hydroxymethyl-2-oxo-1,3-oxazolan-3-yl]phenyl}-5-methyl-2,3-dihydrobenzo[d][1,3]oxazol-2-one or its salts;

(5R)-5-hydroxymethyl-3-[4-(2-oxo-1,3-oxazolan-3-yl)-3-trifluoromethylphenyl]-1,3-oxazolan-2-one or its salts;

~~(5R)-3-[2-fluoro-4-(2-oxo-1,3-oxazolan-3-yl)phenyl]-5-hydroxymethyl-1,3-oxazolan-2-one or its salts;~~

(5R)-3-[3,5-fluoro-4-(2-oxo-1,3-oxazolan-3-yl)phenyl]-5-hydroxymethyl-1,3-oxazolan-2-one or its salts;

(5R)-5-hydroxymethyl-3-[4-(2-oxo-1,3-oxazolan-3-yl)phenyl]-1,3-oxazolan-2-one or its salts;

3-{4-[(5R)-5-hydroxymethyl-2-oxo-1,3-oxazolan-3-yl]phenyl}-2,3-dihydrobenzo[d][1,3]oxazol-2-one or its salts;

(5R)-3-[3-fluoro-4-(3-methyl-4-oxo-1-imidazolidinyl)phenyl]-5-hydroxymethyl-1,3-oxazolan-2-one or its salts;

(5R)-3-{3-fluoro-4-[3-(4-methoxybenzyl)-4-oxo-1-imidazolidinyl]phenyl}-5-hydroxymethyl-1,3-oxazolan-2-one or its salts;

(5R)-3-[3-fluoro-4-(3-methyl-2-oxo-1-imidazolidinyl)phenyl]-5-hydroxymethyl-1,3-oxazolan-2-one or its salts;

(5R)-5-hydroxymethyl-3-[4-(3-methyl-2-oxo-1-imidazolidinyl)phenyl]-1,3-oxazolan-2-one or its salts;

(5R)-5-hydroxymethyl-3-[4-(3-benzyl-2-oxo-1-imidazolidinyl)phenyl]-1,3-oxazolan-2-one or its salts;

(5R)-3-[3-fluoro-4-(2-oxo-3-phenyl-1-imidazolidinyl)phenyl]-5-hydroxymethyl-1,3-oxazolan-2-one or its salts;

(5R)-3-{3-fluoro-4-[3-(fluorophenyl)-2-oxo-1-imidazolidinyl]phenyl}-5-hydroxymethyl-1,3-oxazolan-2-one or its salts;

(5R)-azidomethyl-3-[3-fluoro-4-(2-oxo-1,3-oxazolan-3-yl)phenyl]-1,3-oxazolan-2-one or its salts;

(5R)-azidomethyl-3-[3-fluoro-4-(3-methyl-2-thioxo-1-imidazolidinyl)phenyl]-1,3-oxazolan-2-one or its salts;

3-{4-[(5R)-5-azidomethyl-2-oxo-1,3-oxazolan-3-yl]-2-

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fluorophenyl]-6-methyl-2,3-dihydro benzo[d][1,3]oxazol-2-one or its salts;

3-{4-[(5R)-5-azidomethyl-2-oxo-1,3-oxazolan-3-yl]-2-

fluorophenyl]-5-methyl-2,3-dihydro benzo[d][1,3]oxazol-2-one or its salts;

(5R)-5-azidomethyl-3-[4-(2-oxo-1,3-oxazolan-3-yl)-3-

trifluoromethylphenyl]-1,3-oxazolan-2-one or its salts;

(5R)-5-azidomethyl-3-[2-fluoro-4-(2-oxo-1,3-oxazolan-3-

yl)phenyl]-1,3-oxazolan-2-one or its salts;

(5R)-azidomethyl-3-[3,5-difluoro-4-(2-oxo-1,3-oxazolan-3-yl)

phenyl]-1,3-oxazolan-2-one or its salts;

(5R)-5-azidomethyl-3-[4-(2-oxo-1,3-oxazolan-3-yl)phenyl]-1,3-

oxazolan-2-one or its salts;

3-{4-[(5R)-5-azidomethyl-2-oxo-1,3-oxazolan-3-yl]phenyl}-2,3-

dihydrobenzo[d][1,3]oxazol-2-one or its salts;

(5R)-5-azidomethyl-3-[3-fluoro-4-(3-methyl-4-oxo-1-

imidazolidinyl)phenyl]-1,3-oxazolan-2-one or its salts;

(5R)-5-azidomethyl-3-[3-fluoro-4-(3-phenyl-2-oxo-1-

imidazolidinyl)phenyl]-1,3-oxazolan-2-one or its salts;

(5R)-5-azidomethyl-3-[3-fluoro-4-[3-(4-fluorophenyl)-2-oxo-1-

imidazolidinyl]phenyl]-1,3-oxazolan-2-one or its salts;

(5R)-aminomethyl-3-[3-fluoro-4-(2-oxo-1,3-oxazolan-3-yl)phenyl]-1,3-

oxazolan-2-one or its salts;

(5R)-aminomethyl-3-[3-fluoro-4-(3-methyl-2-thioxo-1-

imidazolidinyl)phenyl]-1,3-oxazolan-2-one or its salts;

(5R)-5-aminomethyl-3-[4-(2-oxo-1,3-oxazolan-3-yl)-3-

trifluoromethylphenyl]-1,3-oxazolan-2-one or its salts;

(5R)-5-aminomethyl-3-[4-(2-oxo-1,3-oxazolan-3-yl)phenyl]-1,3-

oxazolan-2-one or its salts;

(5R)-5-aminomethyl-3-[3-fluoro-4-(3-methyl-4-oxo-1-

imidazolidinyl)phenyl]-1,3-oxazolan-2-one or its salts;

(5R)-5-aminomethyl-3-[3-fluoro-4-(3-benzyl-4-oxo-1-

imidazolidinyl)phenyl]-1,3-oxazolan-2-one or its salts;

N-[(5S)-3-[3-fluoro-4-(2-oxo-1,3-oxazolan-3-yl)phenyl]-2-oxo-

1,3-oxazolan-5-ylmethyl] methanamide or its salts;

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N1-((5S)-3-[3,5-difluoro-4-(2-oxo-1,3-oxazolan-3-yl)phenyl]-2-oxo-1,3-oxazolan-5-ylmethyl) methanamide or its salts;

N1-((5S)-3-[3-fluoro-4-(2-oxo-1,3-oxazolan-3-yl)phenyl]-2-oxo-1,3-oxazolan-5-ylmethyl) acetamide or its salts;

N1-((5S)-3-[3-fluoro-4-(2-oxo-1,3-oxazolan-3-yl)phenyl]-2-oxo-1,3-oxazolan-5-ylmethyl) propanamide or its salts;

N1-((5S)-3-[3-fluoro-4-(2-oxo-1,3-oxazolan-3-yl)phenyl]-2-oxo-1,3-oxazolan-5-ylmethyl) butanamide or its salts;

N1-((5S)-3-[3-fluoro-4-(2-oxo-1,3-oxazolan-3-yl)phenyl]-2-oxo-1,3-oxazolan-5-ylmethyl) pentanamide or its salts;

N1-((5S)-3-[3-fluoro-4-(2-oxo-1,3-oxazolan-3-yl)phenyl]-2-oxo-1,3-oxazolan-5-ylmethyl) heptanamide or its salts;

N1-((5S)-3-[3-fluoro-4-(2-oxo-1,3-oxazolan-3-yl)phenyl]-2-oxo-1,3-oxazolan-5-ylmethyl) acrylamide or its salts;

N1-((5S)-3-[3-fluoro-4-(2-oxo-1,3-oxazolan-3-yl)phenyl]-2-oxo-1,3-oxazolan-5-ylmethyl)-2,2,2-trifluoroacetamide or its salts;

Ethyl((5S)-3-[3-fluoro-4-(2-oxo-1,3-oxazolan-3-yl)phenyl]-2-oxo-1,3-oxazolan-5-ylmethyl) carbamoylmethanoate or its salts;

N1-((5S)-3-[3-fluoro-4-(2-thioxo-1,3-oxazolan-3-yl)phenyl]-2-oxo-1,3-oxazolan-5-ylmethyl) acetamide or its salts;

N1-((5S)-2-oxo-3-[4-(2-thioxo-1,3-oxazolan-3-yl)phenyl]-1,3-oxazolan-5-ylmethyl) acetamide or its salts;

N1-((5S)-2-oxo-3-[3-fluoro-4-(2-thioxo-1,3-thiazolan-3-yl)phenyl]-1,3-oxazolan-5-ylmethyl) acetamide or its salts;

N1-((5S)-3-[3-fluoro-4-(3-methyl-2-thioxo-1-imidazolidinyl)phenyl]-2-oxo-1,3-oxazolan-5-ylmethyl)acetamide or its salts;

N1-((5S)-3-[3-fluoro-4-(2-oxo-2,3-dihydrobenzo[d][1,3]oxazol-3-yl)phenyl]-2-oxo-1,3-oxazolan-5-ylmethyl)acetamide or its salts;

N1-((5S)-3-[3-fluoro-4-(6-methyl-2-oxo-2,3-dihydrobenzo[d][1,3]oxazol-3-yl)phenyl]-2-oxo-1,3-oxazolan-5-ylmethyl)acetamide or its salts;

N1-((5S)-3-[3-fluoro-4-(5-methyl-2-oxo-2,3-dihydrobenzo[d][1,3]oxazol-3-yl)phenyl]-2-oxo-1,3-oxazolan-5-ylmethyl)acetamide or its salts;

N1-((5S)-2-oxo-3-[4-(2-oxo-1,3-oxazolan-3-yl)-3-

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trifluoromethylphenyl]-1,3-oxazolan-5-ylmethyl}acetamide or its salts;

N1-((5S)-2-oxo-3-[4-(2-oxo-1,3-oxazolan-3-yl)-3-trifluoromethylphenyl]-1,3-oxazolan-5-ylmethyl}propanamide or its salts;

N1-((5S)-2-oxo-3-[4-(2-oxo-1,3-oxazolan-3-yl)-3-trifluoromethylphenyl]-1,3-oxazolan-5-ylmethyl}heptanamide or its salts;

N1-((5S)-2-oxo-3-[4-(2-oxo-1,3-oxazolan-3-yl)-3-trifluoromethylphenyl]-1,3-oxazolan-5-ylmethyl}acrylamide or its salts;

N1-((5S)-3-[2-fluoro-4-(2-oxo-1,3-oxazolan-3-yl)phenyl]-2-oxo-1,3-oxazolan-5-ylmethyl} acetamide or its salts;

N1-((5S)-3-[3,5-difluoro-4-(2-oxo-1,3-oxazolan-3-yl)phenyl]-2-oxo-1,3-oxazolan-5-ylmethyl} acetamide or its salts;

N1-((5S)-3-[3,5-difluoro-4-(2-oxo-1,3-oxazolan-3-yl)phenyl]-2-oxo-1,3-oxazolan-5-ylmethyl} propanamide or its salts;

N1-((5S)-2-oxo-3-[4-(2-oxo-1,3-oxazolan-3-yl)phenyl]-1,3-oxazolan-5-ylmethyl}acetamide or its salts;

N1-((5S)-2-oxo-3-[4-(2-oxo-2,3-dihydrobenzo[d][1,3]oxazol-3-yl)phenyl]-1,3-oxazolan-5-ylmethyl}acetamide or its salts;

N1-((5S)-3-[3-fluoro-4-(3-methyl-4-oxo-1-imidazolidinyl)phenyl]-2-oxo-1,3-oxazolan-5-ylmethyl}acetamide or its salts;

N1-((5S)-3-[3-fluoro-4-(3-benzyl-4-oxo-1-imidazolidinyl)phenyl]-2-oxo-1,3-oxazolan-5-ylmethyl}acetamide or its salts;

N1-((5S)-3-[3-fluoro-4-(3-methyl-2-oxo-1-imidazolidinyl)phenyl]-2-oxo-1,3-oxazolan-5-ylmethyl}acetamide or its salts;

N1-((5S)-3-[4-(3-methyl-2-oxo-1-imidazolidinyl)phenyl]-2-oxo-1,3-oxazolan-5-ylmethyl} acetamide or its salts;

N1-((5S)-3-[4-(3-benzyl-2-oxo-1-imidazolidinyl)phenyl]-2-oxo-1,3-oxazolan-5-ylmethyl} acetamide or its salts;

N1-((5S)-3-[3-fluoro-4-(3-phenyl-2-oxo-1-imidazolidinyl)phenyl]-2-oxo-1,3-oxazolan-5-ylmethyl} acetamide or its salts;

N1-((5S)-3-[3-fluoro-4-[3-(4-fluorophenyl)-2-oxo-1-imidazolidinyl]phenyl]-2-oxo-1,3-oxazolan-5-ylmethyl}acetamide or its salts;

(5S)-3-[3-fluoro-4-(2-oxo-1,3-oxazolan-3-yl)phenyl]-5-(1-thioxoethylaminomethyl)-1,3-oxazolan-2-one or its salts;

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(5S)-3-[3-fluoro-4-(2-oxo-1,3-oxazolan-3-yl)phenyl]-5-(3,3,3-trifluoro-1-thioxopropyl aminomethyl)-1,3-oxazolan-2-one or its salts;

(5S)-3-[3-fluoro-4-(3-methyl-2-thioxo-1-imidazolidinyl)phenyl]-5-(1-thioxoethylamino methyl)-1,3-oxazolan-2-one or its salts;

3-{2-fluoro-4-[(5S)-2-oxo-5-(1-thioxoethylaminomethyl)-1,3-oxazolan-3-yl]phenyl}-2,3-dihydrobenzo[d][1,3]oxazol-2-one or its salts;

~~(5S)-3-[4-(2-oxo-1,3-oxazolan-3-yl)-3-trifluoromethylphenyl]-5-(1-thioxoethylamino methyl)-1,3-oxazolan-2-one or its salts;~~

(5S)-3-[3,5-difluoro-4-(2-oxo-1,3-oxazolan-3-yl)phenyl]-5-(1-thioxoethylamino methyl)-1,3-oxazolan-2-one or its salts;

(5S)-3-[3,5-difluoro-4-(2-oxo-1,3-oxazolan-3-yl)phenyl]-5-(1-thioxopropylamino methyl)-1,3-oxazolan-2-one or its salts;

(5S)-3-[4-(2-oxo-1,3-oxazolan-3-yl)phenyl]-5-(1-thioxoethylaminomethyl)-1,3-oxazolan-2-one or its salts;

(5S)-3-[3-fluoro-4-(3-methyl-4-oxo-1-imidazolidinyl)phenyl]-5-(1-thioxoethylamino methyl)-1,3-oxazolan-2-one or its salts;

(5S)-3-[3-fluoro-4-(3-phenyl-2-oxo-1-imidazolidinyl)phenyl]-5-(1-thioxoethylamino methyl)-1,3-oxazolan-2-one or its salts;

N1-[(5S)-3-[3-fluoro-4-(2-oxo-1,3-oxazolan-3-yl)phenyl]-2-oxo-1,3-oxazolan-5-ylmethyl] methylcarbamate or its salts;

N1-[(5S)-2-oxo-3-[4-(2-oxo-1,3-oxazolan-3-yl)-3-trifluoromethylphenyl]-1,3-oxazolan-5-ylmethyl]methylcarbamate or its salts;

N1-[(5S)-3-[3,5-difluoro-4-(2-oxo-1,3-oxazolan-3-yl)phenyl]-2-oxo-1,3-oxazolan-5-ylmethyl] methylcarbamate or its salts;

N1-[(5S)-3-[4-(2-oxo-1,3-oxazolan-3-yl)phenyl]-2-oxo-1,3-oxazolan-5-ylmethyl] methyl carbamate or its salts;

N1-[(5S)-3-[3-fluoro-4-(3-methyl-4-oxo-1-imidazolidinyl)phenyl]-2-oxo-1,3-oxazolan-5-ylmethyl]methylcarbamate or its salts;

(5S)-5-methylthioxy (thioxo)methylaminomethyl-3-[4-(2-oxo-1,3-oxazolan-3-yl) phenyl]-1,3-oxazolan-2-one or its salts;

N1-[(5S)-3-[3,5-difluoro-4-(2-oxo-1,3-oxazolan-3-yl)phenyl]-2-oxo-1,3-oxazolan-5-ylmethyl] methyl dithiocarbamate or its salts;

N1-[(5S)-3-[3-fluoro-4-(2-oxo-1,3-oxazolan-3-yl)phenyl]-2-oxo-

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1,3-oxazolan-5-ylmethyl} methylthiocarbamate or its salts;

N1-((5S)-3-[3-fluoro-4-(2-oxo-1,3-oxazolan-3-yl)phenyl]-2-oxo-

1,3-oxazolan-5-ylmethyl} ethylthiocarbamate or its salts;

N1-((5S)-3-[3-fluoro-4-(2-oxo-1,3-oxazolan-3-yl)phenyl]-2-oxo-

1,3-oxazolan-5-ylmethyl} trifluoroacetoxythiocarbamate or its salts;

(5S)-5-cyclohexyloxy (thioxo)methylaminomethyl-3-[4-(2-oxo-1,3-

~~oxazolan-3-yl) phenyl]-1,3-oxazolan-2-one or its salts;~~

N1-((5S)-3-[3-fluoro-4-(2-thioxo-1,3-oxazolan-3-yl)phenyl]-2-

oxo-1,3-oxazolan-5-ylmethyl} methylthiocarbamate or its salts;

N1-((5S)-3-[3-fluoro-4-(3-methyl-2-thioxo-1-imidazolidinyl)

phenyl]-2-oxo-1,3-oxazolan-5-ylmethyl} ethylthiocarbamate or its salts;

N1-((5S)-3-[3-fluoro-4-(3-methyl-2-thioxo-1-imidazolidinyl)

phenyl]-2-oxo-1,3-oxazolan-5-ylmethyl)-1-propylthiocarbamate or its salts;

N1-((5S)-3-[3-fluoro-4-(3-methyl-2-thioxo-1-imidazolidinyl)

phenyl]-2-oxo-1,3-oxazolan-5-ylmethyl} methylthiocarbamate or its salts;

N1-((5S)-3-[3-fluoro-4-(3-methyl-2-thioxo-1-imidazolidinyl)

phenyl]-2-oxo-1,3-oxazolan-5-ylmethyl)-2-propylthiocarbamate or its salts;

N1-((5S)-2-oxo-3-[4-(2-oxo-1,3-oxazolan-3-yl)-3-

trifluoromethylphenyl]-1,3-oxazolan-5-ylmethyl} methylthiocarbamate or its salts;

N1-((5S)-2-oxo-3-[4-(2-oxo-1,3-oxazolan-3-yl)-3-

trifluoromethylphenyl]-1,3-oxazolan-5-ylmethyl} ethylthiocarbamate or its salts;

N1-((5S)-3-[3,5-difluoro-4-(2-oxo-1,3-oxazolan-3-yl)phenyl]-2-

oxo-1,3-oxazolan-5-ylmethyl} methylthiocarbamate or its salts;

N1-((5S)-3-[4-(2-oxo-1,3-oxazolan-3-yl)phenyl]-2-oxo-1,3-

oxazolan-5-ylmethyl} methyl thiocarbamate or its salts;

N1-((5S)-3-[4-(2-oxo-1,3-oxazolan-3-yl)phenyl]-2-oxo-1,3-

oxazolan-5-ylmethyl} ethyl thiocarbamate or its salts;

N1-((5S)-3-[4-(2-oxo-1,3-oxazolan-3-yl)phenyl]-2-oxo-1,3-

oxazolan-5-ylmethyl)-1-propyl thiocarbamate or its salts;

(5S)-5-[2,2,2-trifluoroethyloxy(thioxo)methylaminomethyl]-3-[4-

(2-oxo-1,3-oxazolan-3-yl) phenyl]-1,3-oxazolan-2-one or its salts;

(5S)-5-[2-hydroxyethyloxy (thioxo)methylaminomethyl]-3-[4-(2-

oxo-1,3-oxazolan-3-yl) phenyl]-1,3-oxazolan-2-one or its salts;



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(5S)-5-[2-methoxyethyloxy (thioxo)methylaminomethyl]-3-[4-(2-oxo-1,3-oxazolan-3-yl) phenyl]-1,3-oxazolan-2-one or its salts;

N1-((5S)-3-[4-(2-oxo-1,3-oxazolan-3-yl)phenyl]-2-oxo-1,3-oxazolan-5-ylmethyl)allylthio carbamate or its salts;

N1-((5S)-3-[4-(2-oxo-1,3-oxazolan-3-yl)phenyl]-2-oxo-1,3-oxazolan-5-ylmethyl)-2-propylthio carbamate or its salts;

N1-((5S)-2-oxo-3-[4-(2-oxo-2,3-dihydrobenzo[d][1,3]oxazol-3-yl)phenyl]-1,3-oxazolan-5-ylmethyl)methylthiocarbamate or its salts;

N1-((5S)-2-oxo-3-[4-(2-oxo-2,3-dihydrobenzo[d][1,3]oxazol-3-yl)phenyl]-1,3-oxazolan-5-ylmethyl)ethylthiocarbamate or its salts;

N1-((5S)-3-[3-fluoro-4-(3-methyl-4-oxo-1-imidazolidinyl)phenyl]-2-oxo-1,3-oxazolan-5-ylmethyl)methylthiocarbamate or its salts;

N1-((5S)-3-[4-(3-methyl-2-oxo-1-imidazolidinyl)phenyl]-2-oxo-1,3-oxazolan-5-ylmethyl) methylthiocarbamate or its salts;

N1-((5S)-3-[4-(3-methyl-4-oxo-1-imidazolidinyl)phenyl]-2-oxo-1,3-oxazolan-5-ylmethyl) methylthiocarbamate or its salts;

N1-((5S)-3-[3-fluoro-4-(3-methyl-2-oxo-1-imidazolidinyl)phenyl]-2-oxo-1,3-oxazolan-5-ylmethyl)methylthiocarbamate or its salts;

N1-((5S)-3-[4-(3-benzyl-2-oxo-1-imidazolidinyl)phenyl]-2-oxo-1,3-oxazolan-5-ylmethyl) methylthiocarbamate or its salts;

N1-((5S)-3-[4-(3-benzyl-2-oxo-1-imidazolidinyl)phenyl]-2-oxo-1,3-oxazolan-5-ylmethyl) ethylthiocarbamate or its salts;

N1-((5S)-3-[3-fluoro-4-(3-phenyl-2-oxo-1-imidazolidinyl)phenyl]-2-oxo-1,3-oxazolan-5-ylmethyl)methylthiocarbamate or its salts;

N1-((5S)-3-[3-fluoro-4-(3-phenyl-2-oxo-1-imidazolidinyl)phenyl]-2-oxo-1,3-oxazolan-5-ylmethyl)ethylthiocarbamate or its salts;

N1-((5S)-3-[3-fluoro-4-[3-(4-fluorophenyl)-2-oxo-1-imidazolidinyl]phenyl]-2-oxo-1,3-oxazolan-5-ylmethyl)methylthiocarbamate or its salts;

N1-((5S)-3-[3-fluoro-4-[3-(4-fluorophenyl)-2-oxo-1-imidazolidinyl]phenyl]-2-oxo-1,3-oxazolan-5-ylmethyl)ethylthiocarbamate or its salts;

N1-((5S)-3-[3-fluoro-4-[3-(4-fluorophenyl)-2-oxo-1-

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imidazolidinyl]phenyl}-2-oxo-1,3-oxazolan-5-ylmethyl)-2-propylthiocarbamate or its salts;

N1-((5S)-3-{3-fluoro-4-[3-methoxymethyl-4-oxo-1-imidazolidinyl]phenyl}-2-oxo-1,3-oxazolan-5-ylmethyl)methylthiocarbamate or its salts;

N1-((5S)-3-{3-fluoro-4-[3-benzyl-4-oxo-1-imidazolidinyl]phenyl}-2-oxo-1,3-oxazolan-5-ylmethyl)methylthiocarbamate or its salts;

N1-((5S)-3-{3-fluoro-4-[3-benzyl-4-oxo-1-imidazolidinyl]phenyl}-2-oxo-1,3-oxazolan-5-ylmethyl)ethylthiocarbamate or its salts;

~~N1-((5S)-3-{4-[4-oxo-1-imidazolidinyl]phenyl}-2-oxo-1,3-oxazolan-5-ylmethyl)-(N,N-dimethylamino)ethylthiocarbamate or its salts;~~

N1-((5S)-3-{4-[2-oxo-1,3-oxazolan-3-yl]phenyl}-2-oxo-1,3-oxazolan-5-ylmethyl)-(N,N-dimethylamino)ethylthiocarbamate or its salts;

N1-((5S)-3-{3-fluoro-4-[3-(4-methoxybenzyl)-4-oxo-1-imidazolidinyl]phenyl}-2-oxo-1,3-oxazolan-5-ylmethyl)methylthiocarbamate or its salts;

N1-((5S)-3-{3-fluoro-4-[3-benzyl-4-oxo-1-imidazolidinyl]phenyl}-2-oxo-1,3-oxazolan-5-ylmethyl)isopropylthiocarbamate or its salts;

N1-((5S)-3-{3-fluoro-4-[3-hydroxymethyl-4-oxo-1-imidazolidinyl]phenyl}-2-oxo-1,3-oxazolan-5-ylmethyl)methylthiocarbamate or its salts;

N1-((5S)-3-{3-fluoro-4-[4-oxo-1-imidazolidinyl]phenyl}-2-oxo-1,3-oxazolan-5-ylmethyl)methylthiocarbamate or its salts;

N1-((5S)-3-{3-fluoro-4-(3-methyl-4-thioxo-1-imidazolidinyl)phenyl}-2-oxo-1,3-oxazolan-5-ylmethyl)methylthiocarbamate or its salts;

(5S)-5-[(2S)-2-hydroxymethylazolan-1-yl(thioxo)methylaminomethyl]-3-[4-(2-oxo-1,3-oxazolan-3-yl)phenyl]-1,3-oxazolan-2-one or its salts;

(5S)-5-diethylamino(thioxo)methylaminomethyl-3-[4-(2-oxo-1,3-oxazolan-3-yl)phenyl]-1,3-oxazolan-2-one or its salts;

(5S)-5-allylamino(thioxo)methylaminomethyl-3-[4-(2-oxo-1,3-oxazolan-3-yl)phenyl]-1,3-oxazolan-2-one or its salts;

(5S)-5-benzylamino(thioxo)methylaminomethyl-3-[4-(2-oxo-1,3-oxazolan-3-yl)phenyl]-1,3-oxazolan-2-one or its salts;

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(5S)-5-[4-methoxybenzylamino(thioxo)methylaminomethyl]-3-[4-(2-oxo-1,3-oxazolan-3-yl)phenyl]-1,3-oxazolan-2-one or its salts;

(5S)-3-[4-(2-oxo-1,3-oxazolan-3-yl)phenyl]-5-[2-pyridylmethylamino (thioxo)methyl aminomethyl]-1,3-oxazolan-2-one or its salts;

(5S)-5-methylamino (thioxo)methylaminomethyl-3-[4-(2-oxo-1,3-oxazolan-3-yl) phenyl]-1,3-oxazolan-2-one or its salts;

(5S)-5-[2-hydroxyethylamino (thioxo)methylaminomethyl]-3-[4-(2-oxo-1,3-oxazolan-3-yl) phenyl]-1,3-oxazolan-2-one or its salts;

(5S)- 3-[4-(2-oxo-1,3-oxazolan-3-yl)phenyl]-5-[1,4-thiazinan-4-yl (thioxo)methylamino methyl]-1,3-oxazolan-2-one or its salts;

(5S)-3-[4-(2-oxo-1,3-oxazolan-3-yl)phenyl]-5-[2-pyridylamino (thioxo)methylamino methyl]- 1,3-oxazolan-2-one or its salts;

(5S)-5-amino(thioxo)methylaminomethyl-3-[3-fluoro-4-(2-oxo-1,3-oxazolan-3-yl)phenyl]-1,3-oxazolan-2-one or its salts;

(5S)-3-[3-fluoro-4-(2-oxo-1,3-oxazolan-3-yl)phenyl]-5-methylamino (thioxo)methylamino methyl-1,3-oxazolan-2-one or its salts;

(5S)-5-amino(thioxo)methylaminomethyl-3-[3,5-difluoro-4-(2-oxo-1,3-oxazolan-3-yl)phenyl]-1,3-oxazolan-2-one or its salts;

(5S)-3-[3,5-difluoro-4-(2-oxo-1,3-oxazolan-3-yl)phenyl]-5-methylamino(thioxo)methyl aminomethyl-1,3-oxazolan-2-one or its salts and

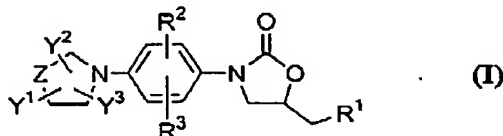
~~N1-((5S)-3-[4-[4-oxo-1-imidazolidinyl]phenyl]-2-oxo-1,3-oxazolan-5-ylmethyl)-(N,N-dimethylamino)ethylthiocarbamate hydrochloride;~~

N1-((5S)-3-[4-[2-oxo-1,3-oxazolan-3-yl]phenyl]-2-oxo-1,3-oxazolan-5-ylmethyl)-(N,N-dimethylamino)ethylthiocarbamate hydrochloride.

7. (Currently amended) A compound according to claim 1, wherein the pharmaceutically acceptable salt is selected from Li, Na, K, Ca, Mg, Fe, Cu, Zn, or Mn[ $\text{[} \frac{2}{3} \text{]} \text{]} \text{ or salts of organic bases, chiral bases, natural amino acids, unnatural amino acids, substituted amino acids, guanidine, substituted guanidine salts; ammonium, substituted ammonium salts, aluminum salts and acid addition salts.}$

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8. (Presently amended) A process for the preparation of the compound of formula (I)



where

$R^1$  represents  $NHR^4$ , wherein  $R^4$  represents hydrogen atom;

$R^2$  and  $R^3$  are same or different and independently represent hydrogen, halogen atom,  $(C_1-C_6)$ alkyl group, halo $(C_1-C_6)$ alkyl, cyano, nitro,  $SR^a$ ,  $NR^a$ ,  $OR^a$  where  $R^a$  represents substituted or unsubstituted  $(C_1-C_6)$ alkyl group, or halo $(C_1-C_6)$ alkyl;

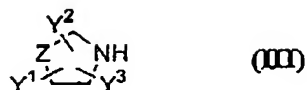
$Z$  represents  $S$  [ ] or  $O$ ,  $=CH$  or  $NR^b$  where  $R^b$  represents hydrogen, or substituted or unsubstituted  $(C_1-C_6)$ alkyl,  $(C_2-C_6)$ alkenyl,  $(C_4-C_6)$ cycloalkyl,  $(C_4-C_6)$ alkoxy, aryl, aralkyl, aryloxy,  $(C_4-C_6)$ alkylcarbonyl, arylcarbonyl,  $(C_4-C_6)$ alkoxycarbonyl or aryloxy carbonyl;

$Y^1$  represents  $=O$  or  $=S$  group and  $Y^2$  and  $Y^3$  independently represent hydrogen, halogen, cyano, nitro, formyl, hydroxy, amino,  $=O$ ,  $=S$  group, or substituted or unsubstituted groups selected from  $(C_1-C_6)$ alkyl, hydroxy $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxy $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxycarbonyl, carboxy $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkylsulfonyl,  $(C_1-C_6)$ alkylcarbonylamino $(C_1-C_6)$ alkyl, arylcarbonylamino $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkylcarbonyloxy $(C_1-C_6)$ alkyl, amino $(C_1-C_6)$ alkyl, mono $(C_1-C_6)$ alkylamino, di $(C_1-C_6)$ alkylamino, arylamino,  $(C_1-C_6)$ alkoxy, aryl, aryloxy, aralkyl, heteroaryl, heteroaralkyl, heterocyclyl or heterocycloalkyl;

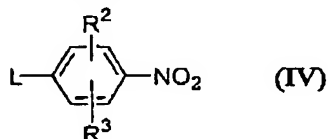
$Y^2$  and  $Y^3$  when present on adjacent carbon atoms together also form a substituted or unsubstituted 5 or 6 membered aromatic or non-aromatic cyclic structure, optionally containing one or two hetero atoms; its derivatives, its analogs, its tautomeric forms, its stereoisomers, its polymorphs, its pharmaceutically acceptable salts or its pharmaceutically acceptable solvates; which comprises:

(i) reacting a compound of formula (III)

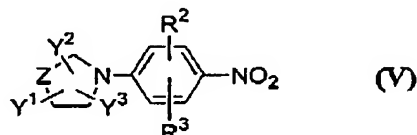
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where Y<sup>1</sup>, Y<sup>2</sup>, Y<sup>3</sup> and Z are as defined above, with a compound of formula (IV)

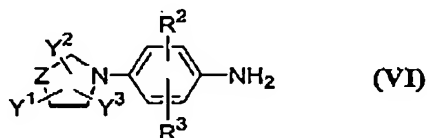


where L represents a leaving group; R<sup>2</sup> and R<sup>3</sup> are as defined above, to produce a compound of formula (V)



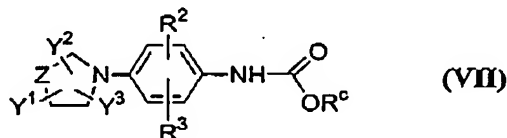
where Y<sup>1</sup>, Y<sup>2</sup>, Y<sup>3</sup>, R<sup>2</sup>, R<sup>3</sup> and Z are as defined above,

(ii) reducing the compound of formula (V) to produce a compound of formula (VI)



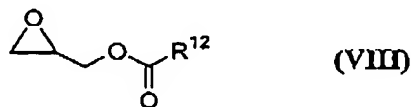
where Y<sup>1</sup>, Y<sup>2</sup>, Y<sup>3</sup>, R<sup>2</sup>, R<sup>3</sup> and Z are as defined above,

(iii) reacting the compound of formula (VI) with alkylchloroformate, to produce a compound of formula (VII)



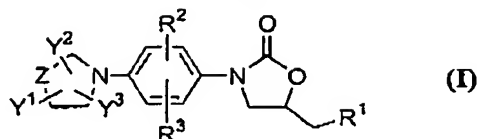
where R<sup>c</sup> represents (C<sub>1</sub>-C<sub>8</sub>)alkyl group group; Y<sup>1</sup>, Y<sup>2</sup>, Y<sup>3</sup>, R<sup>2</sup>, R<sup>3</sup> and Z are as defined above,

(iv) reacting the compound of formula (VII) with a compound of formula (VIII)



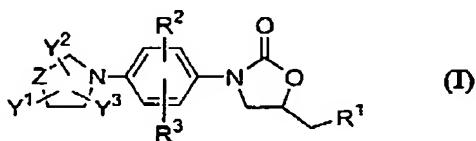
where R<sup>12</sup> represents (C<sub>1</sub>-C<sub>3</sub>)alkyl group in the presence of a base to produce a compound of formula (I)

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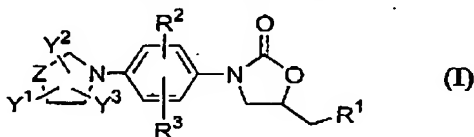
where  $R^1$  represents hydroxy;  $Y^1$ ,  $Y^2$ ,  $Y^3$ ,  $R^2$ ,  $R^3$  and  $Z$  are as defined above,

(v) reacting the compound of formula (I) with alkylsulfonyl chloride or aryl sulfonyl chloride to produce a compound of formula (I), where  $R^1$  represents alkyl sulfonyl or aryl sulfonyl, and reacting with  $\text{NaN}_3$  to produce compound of formula (I)



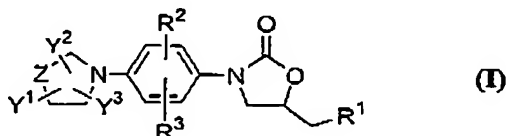
where  $R^1$  represents azido group;  $Y^1$ ,  $Y^2$ ,  $Y^3$ ,  $R^2$ ,  $R^3$  and  $Z$  are as defined above and

(vi) reducing the compound of formula (I) where  $R^1$  represents azido group, to produce a compound of formula (I)



where  $R^1$  represents  $\text{NHR}^4$  wherein  $R^4$  represents hydrogen atom;  $Y^1$ ,  $Y^2$ ,  $Y^3$ ,  $R^2$ ,  $R^3$  and  $Z$  are as defined above.

9. (Presently amended) A process for the preparation of compound of formula (I)



where

$R^1$  represents hydroxy;

$R^2$  and  $R^3$  are same or different and independently represent hydrogen, halogen atom,  $(\text{C}_1\text{-C}_6)$ alkyl group, halo $(\text{C}_1\text{-C}_6)$ alkyl, cyano, nitro,  $\text{SR}^a$ ,  $\text{NR}^a$ ,  $\text{OR}^a$  where  $R^a$  represents substituted or unsubstituted  $(\text{C}_1\text{-C}_6)$ alkyl group, or halo $(\text{C}_1\text{-C}_6)$ alkyl;

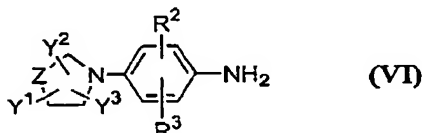
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Z represents S[[1]] or O, =CH or NR<sup>b</sup> where R<sup>b</sup> represents hydrogen, or substituted or unsubstituted (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>2</sub>-C<sub>6</sub>)alkenyl, (C<sub>4</sub>-C<sub>6</sub>)cycloalkyl, (C<sub>4</sub>-C<sub>6</sub>)alkoxy, aryl, aralkyl, aryloxy, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonyl, arylcarbonyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl or aryloxy carbonyl;

Y<sup>1</sup> represents =O or =S group and Y<sup>2</sup> and Y<sup>3</sup> independently represent hydrogen, halogen, cyano, nitro, formyl, hydroxy, amino, =O, =S group, or substituted or unsubstituted groups selected from (C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl, carboxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, arylcarbonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonyloxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, amino(C<sub>1</sub>-C<sub>6</sub>)alkyl, mono(C<sub>1</sub>-C<sub>6</sub>)alkylamino, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino, arylamino, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, aryl, aryloxy, aralkyl, heteroaryl, heteroaralkyl, heterocyclyl or heterocycloalkyl;

Y<sup>2</sup> and Y<sup>3</sup> when present on adjacent carbon atoms together may also form a substituted or unsubstituted 5 or 6 membered aromatic or non-aromatic cyclic structure, optionally containing one or two hetero atoms; its derivatives, its analogs, its tautomeric forms, its stereoisomers, its polymorphs, its pharmaceutically acceptable salts or its pharmaceutically acceptable solvates; which comprises:

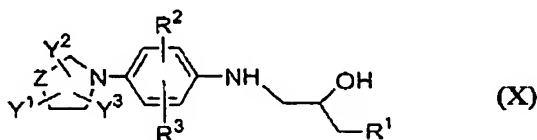
(i) reacting the compound of formula (VI)



where Y<sup>1</sup>, Y<sup>2</sup>, Y<sup>3</sup>, R<sup>2</sup>, R<sup>3</sup> and Z are as defined above, with a compound of formula (IX)



where R<sup>1</sup> represents hydroxy, to produce a compound of formula (X)

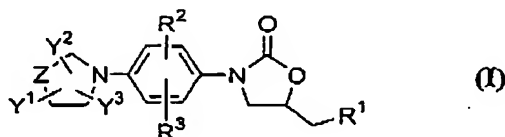


where R<sup>1</sup> represents hydroxy; Y<sup>1</sup>, Y<sup>2</sup>, Y<sup>3</sup>, R<sup>2</sup>, R<sup>3</sup> and Z are as defined above, and

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(ii) carbonylating the compound of formula (X) with a carbonylating agent to produce the compound of formula (I) where R<sup>1</sup> represents hydroxy; Y<sup>1</sup>, Y<sup>2</sup>, Y<sup>3</sup>, R<sup>2</sup>, R<sup>3</sup> and Z are as defined above.

10. (Currently amended) A process for the preparation of compound of the formula (I)



where

R<sup>1</sup> represents azido;

R<sup>2</sup> and R<sup>3</sup> are same or different and independently represent hydrogen, halogen atom, (C<sub>1</sub>-C<sub>6</sub>)alkyl group, halo(C<sub>1</sub>-C<sub>6</sub>)alkyl, cyano, nitro, SR<sup>a</sup>, NR<sup>a</sup>, OR<sup>a</sup> where R<sup>a</sup> represents substituted or unsubstituted (C<sub>1</sub>-C<sub>6</sub>)alkyl group, or halo(C<sub>1</sub>-C<sub>6</sub>)alkyl;

Z represents S[~~],~~] or O ~~-,~~ =CH or ~~NR<sup>b</sup> where R<sup>b</sup> represents hydrogen, or substituted or unsubstituted (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>2</sub>-C<sub>6</sub>)alkenyl, (C<sub>1</sub>-C<sub>6</sub>)cycloalkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, aryl, aralkyl, aryloxy, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonyl, arylcarbonyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl or aryloxycarbonyl;~~

Y<sup>1</sup> represents =O or =S group and Y<sup>2</sup> and Y<sup>3</sup> independently represent hydrogen, halogen, cyano, nitro, formyl, hydroxy, amino, =O, =S group, or substituted or unsubstituted groups selected from (C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl, carboxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, arylcarbonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonyloxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, amino(C<sub>1</sub>-C<sub>6</sub>)alkyl, mono(C<sub>1</sub>-C<sub>6</sub>)alkylamino, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino, arylamino, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, aryl, aryloxy, aralkyl, heteroaryl, heteroaralkyl, heterocyclyl or heterocycloalkyl;

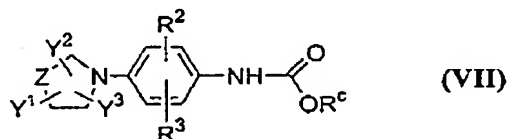
Y<sup>2</sup> and Y<sup>3</sup> when present on adjacent carbon atoms together also form a substituted or unsubstituted 5 or 6 membered aromatic or non-aromatic cyclic structure, optionally containing one or two hetero atoms; ~~its derivatives, its analogs, its tautomeric forms,~~ its stereoisomers, its polymorphs, its



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pharmaceutically acceptable salts or its pharmaceutically acceptable solvates;  
which comprises:

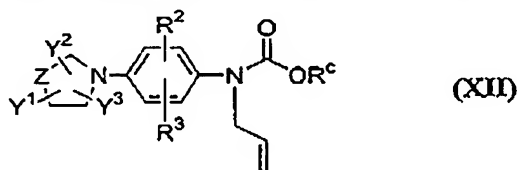
- (i) reacting a compound of formula (VII)



where R<sup>c</sup> represents (C<sub>1</sub>-C<sub>8</sub>)alkyl group; Y<sup>1</sup>, Y<sup>2</sup>, Y<sup>3</sup>, R<sup>2</sup>, R<sup>3</sup> and Z are as defined above, with a compound of formula (XI)

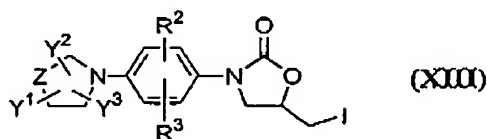


where L represents a leaving group; to produce a compound of formula (XII)



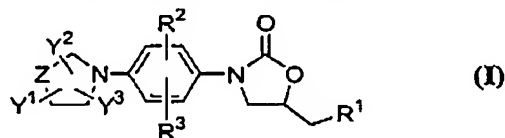
where R<sup>c</sup>, Y<sup>1</sup>, Y<sup>2</sup>, Y<sup>3</sup>, R<sup>2</sup>, R<sup>3</sup> and Z are as defined above,

- (ii) converting the compound of formula (XII) defined above to a compound of formula (XIII)



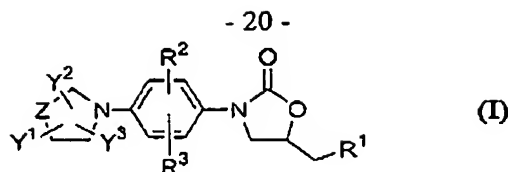
where Y<sup>1</sup>, Y<sup>2</sup>, Y<sup>3</sup>, R<sup>2</sup>, R<sup>3</sup> and Z are as defined above, and

- (iii) converting the compound of formula (XIII) defined above to a compound of formula (I) by reacting with organic or inorganic azide



where R<sup>1</sup> represents azido group; Y<sup>1</sup>, Y<sup>2</sup>, Y<sup>3</sup>, R<sup>2</sup>, R<sup>3</sup> and Z are as defined above.

11. (Currently amended) A process for the preparation of compound of formula (I)



where

$R^1$  represents azido group;

$R^2$  and  $R^3$  are same or different and independently represent hydrogen, halogen atom,  $(C_1-C_6)$ alkyl group, halo $(C_1-C_6)$ alkyl, cyano, nitro,  $SR^a$ ,  $NR^a$ ,  $OR^a$  where  $R^a$  represents substituted or unsubstituted  $(C_1-C_6)$ alkyl group, or halo $(C_1-C_6)$ alkyl;

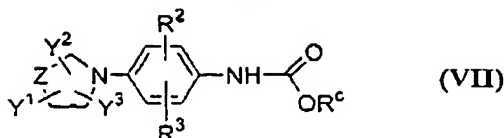
$Z$  represents  $S[[i]]$  or  $O$ ,  $=CH$  or  $NR^b$  where  $R^b$  represents hydrogen, or substituted or unsubstituted  $(C_1-C_6)$ alkyl,  $(C_2-C_6)$ alkenyl,  $(C_4-C_6)$ cycloalkyl,  $(C_4-C_6)$ alkoxy, aryl, aralkyl, aryloxy,  $(C_4-C_6)$ alkylcarbonyl, arylcarbonyl,  $(C_4-C_6)$ alkoxy carbonyl or aryloxy carbonyl;

$Y^1$  represents  $=O$  or  $=S$  group and  $Y^2$  and  $Y^3$  independently represent hydrogen, halogen, cyano, nitro, formyl, hydroxy, amino,  $=O$ ,  $=S$  group, or substituted or unsubstituted groups selected from  $(C_1-C_6)$ alkyl, hydroxy $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxy $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxycarbonyl, carboxy $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkylsulfonyl,  $(C_1-C_6)$ alkylcarbonylamino $(C_1-C_6)$ alkyl, arylcarbonylamino $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkylcarbonyloxy $(C_1-C_6)$ alkyl, amino $(C_1-C_6)$ alkyl, mono $(C_1-C_6)$ alkylamino, di $(C_1-C_6)$ alkylamino, arylamino,  $(C_1-C_6)$ alkoxy, aryl, aryloxy, aralkyl, heteroaryl, heteroaralkyl, heterocyclyl or heterocycloalkyl;

$Y^2$  and  $Y^3$  when present on adjacent carbon atoms together also form a substituted or unsubstituted 5 or 6 membered aromatic or non-aromatic cyclic structure, optionally containing one or two hetero atoms; its derivatives, its analogs, its tautomeric forms, its stereoisomers, its polymorphs, its pharmaceutically acceptable salts or its pharmaceutically acceptable solvates; which comprises:

- (i) reacting a compound of formula (VII)

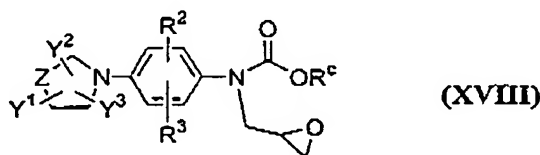
- 21 -



where R<sup>c</sup> represents (C<sub>1</sub>-C<sub>6</sub>)alkyl group; Y<sup>1</sup>, Y<sup>2</sup>, Y<sup>3</sup>, R<sup>2</sup>, R<sup>3</sup> and Z are as defined above, with a compound of formula (XVII)

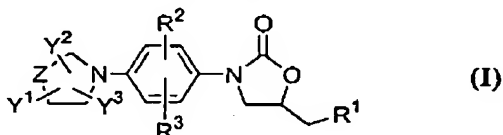


where L represents leaving group; to produce a compound of formula (XVIII)



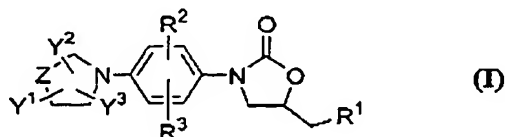
where R<sup>c</sup>, Y<sup>1</sup>, Y<sup>2</sup>, Y<sup>3</sup>, R<sup>2</sup>, R<sup>3</sup> and Z are as defined above, and

(ii) converting the compound of formula (XVIII) defined above to a compound of formula (I), by reacting with an organic or an inorganic azide,



where R<sup>1</sup> represents azido group; Y<sup>1</sup>, Y<sup>2</sup>, Y<sup>3</sup>, R<sup>2</sup>, R<sup>3</sup> and Z are as defined above.

12. (Currently amended) A process for the preparation of compound of formula (I)



where

R<sup>1</sup> represents hydroxy group;

R<sup>2</sup> and R<sup>3</sup> are same or different and independently represent hydrogen, halogen atom, (C<sub>1</sub>-C<sub>6</sub>)alkyl group, halo(C<sub>1</sub>-C<sub>6</sub>)alkyl, cyano, nitro, SR<sup>a</sup>, NR<sup>a</sup>, OR<sup>a</sup> where R<sup>a</sup> represents substituted or unsubstituted (C<sub>1</sub>-C<sub>6</sub>)alkyl group, or halo(C<sub>1</sub>-C<sub>6</sub>)alkyl;

Z represents S[[.]] or O-, =CH- or NR<sup>b</sup> where R<sup>b</sup> represents hydrogen, or

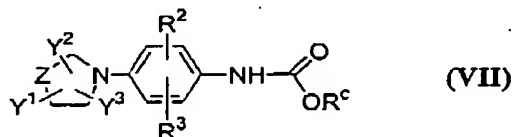
- 22 -

substituted or unsubstituted (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>2</sub>-C<sub>6</sub>)alkenyl, (C<sub>1</sub>-C<sub>6</sub>)cycloalkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, aryl, aralkyl, aryloxy, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonyl, arylcarbonyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl or aryloxycarbonyl;

Y<sup>1</sup> represents =O or =S group and Y<sup>2</sup> and Y<sup>3</sup> independently represent hydrogen, halogen, cyano, nitro, formyl, hydroxy, amino, =O, =S group, or substituted or unsubstituted groups selected from (C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl, carboxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, arylcarbonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonyloxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, amino(C<sub>1</sub>-C<sub>6</sub>)alkyl, mono(C<sub>1</sub>-C<sub>6</sub>)alkylamino, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino, arylamino, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, aryl, aryloxy, aralkyl, heteroaryl, heteroaralkyl, heterocyclyl or heterocycloalkyl;

Y<sup>2</sup> and Y<sup>3</sup> when present on adjacent carbon atoms together also form a substituted or unsubstituted 5 or 6 membered aromatic or non-aromatic cyclic structure, optionally containing one or two hetero atoms; ~~its derivatives, its analogs, its tautomeric forms,~~ its stereoisomers, its polymorphs, its pharmaceutically acceptable salts or its pharmaceutically acceptable solvates; which comprises:

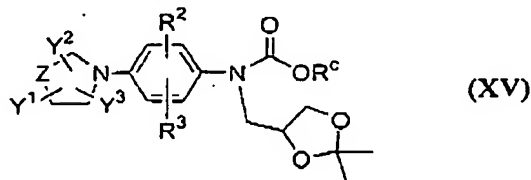
- (i) reacting a compound of formula (VII)



where R<sup>c</sup> represents (C<sub>1</sub>-C<sub>8</sub>)alkyl group; Y<sup>1</sup>, Y<sup>2</sup>, Y<sup>3</sup>, R<sup>2</sup>, R<sup>3</sup> and Z are as defined above, with a compound of formula (XIV)



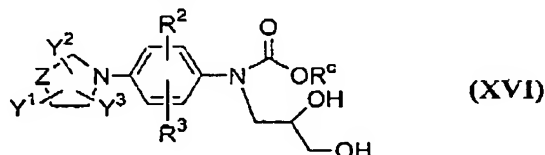
where L represents a leaving group; to produce a compound of formula (XV)



- 23 -

where  $R^c$  represents (C<sub>1</sub>-C<sub>6</sub>)alkyl group;  $Y^1$ ,  $Y^2$ ,  $Y^3$ ,  $R^2$ ,  $R^3$  and Z are as defined above,

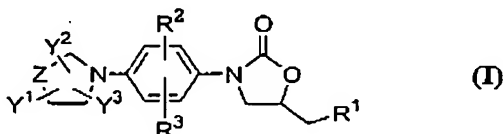
(ii) hydrolysing the acetonide moiety in the compound of formula (XV) to produce a compound of formula (XVI)



where  $R^c$ ,  $Y^1$ ,  $Y^2$ ,  $Y^3$ ,  $R^2$ ,  $R^3$  and Z are as defined above, and

(iii) cyclising the compound of formula (XVI) with or without a base to a compound of formula (I), where  $R^1$  represents hydroxy group;  $Y^1$ ,  $Y^2$ ,  $Y^3$ ,  $R^2$ ,  $R^3$  and Z are as defined above.

13. (Currently amended) A process for the preparation of compound of the formula (I)



where

$R^1$  represents  $NHR^4$ , wherein  $R^4$  represents acetyl group;

$R^2$  and  $R^3$  are same or different and independently represent hydrogen, halogen atom, (C<sub>1</sub>-C<sub>6</sub>)alkyl group, halo(C<sub>1</sub>-C<sub>6</sub>)alkyl, cyano, nitro,  $SR^a$ ,  $NR^a$ ,  $OR^a$  where  $R^a$  represents substituted or unsubstituted (C<sub>1</sub>-C<sub>6</sub>)alkyl group, or halo(C<sub>1</sub>-C<sub>6</sub>)alkyl;

Z represents S[ $\cdot$ ] or O,  $-CH$  or  $NR^b$  where  $R^b$  represents hydrogen, or substituted or unsubstituted (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>2</sub>-C<sub>6</sub>)alkenyl, (C<sub>4</sub>-C<sub>6</sub>)cycloalkyl, (C<sub>4</sub>-C<sub>6</sub>)alkoxy, aryl, aralkyl, aryloxy, (C<sub>4</sub>-C<sub>6</sub>)alkylcarbonyl, arylcarbonyl, (C<sub>4</sub>-C<sub>6</sub>)alkoxycarbonyl or aryloxy carbonyl;

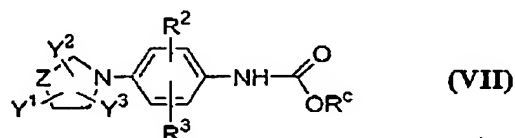
$Y^1$  represents =O or =S group and  $Y^2$  and  $Y^3$  independently represent hydrogen, halogen, cyano, nitro, formyl, hydroxy, amino, =O, =S group, or substituted or unsubstituted groups selected from (C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl,

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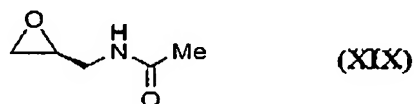
carboxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, arylcarbonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonyloxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, amino(C<sub>1</sub>-C<sub>6</sub>)alkyl, mono(C<sub>1</sub>-C<sub>6</sub>)alkylamino, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino, arylamino, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, aryl, aryloxy, aralkyl, heteroaryl, heteroaralkyl, heterocyclyl or heterocycloalkyl;

Y<sup>2</sup> and Y<sup>3</sup> when present on adjacent carbon atoms together also form a substituted or unsubstituted 5 or 6 membered aromatic or non-aromatic cyclic structure, optionally containing one or two hetero atoms; ~~its derivatives, its analogs, its tautomeric forms,~~ its stereoisomers, its polymorphs, its pharmaceutically acceptable salts or its pharmaceutically acceptable solvates; which comprises:

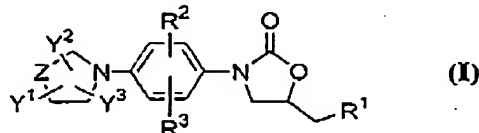
- (i) reacting a compound of formula (VII)



where R<sup>c</sup> represents (C<sub>1</sub>-C<sub>8</sub>)alkyl group; Y<sup>1</sup>, Y<sup>2</sup>, Y<sup>3</sup>, R<sup>2</sup>, R<sup>3</sup> and Z are as defined above, with a compound of formula (XIX)

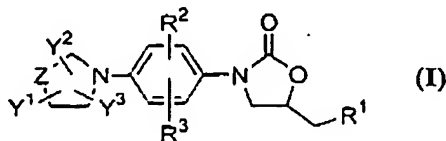


to produce a compound of formula (I)



where R<sup>1</sup> represents NHR<sup>4</sup>, wherein R<sup>4</sup> represents acetyl group; Y<sup>1</sup>, Y<sup>2</sup>, Y<sup>3</sup>, R<sup>2</sup>, R<sup>3</sup> and Z are as defined above.

14. (Currently amended) A process for the preparation of compound of formula (I)



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where

$R^1$  represents  $NHR^4$ , wherein  $R^4$  represents formyl group;

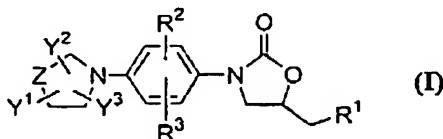
$R^2$  and  $R^3$  are same or different and independently represent hydrogen, halogen atom,  $(C_1-C_6)$ alkyl group, halo $(C_1-C_6)$ alkyl, cyano, nitro,  $SR^a$ ,  $NR^a$ ,  $OR^a$  where  $R^a$  represents substituted or unsubstituted  $(C_1-C_6)$ alkyl group, or halo $(C_1-C_6)$ alkyl;

$Z$  represents  $S[[\cdot]]$  or  $O$ ,  $=CH$  or  $NR^b$  where  $R^b$  represents hydrogen, or substituted or unsubstituted  $(C_4-C_6)$ alkyl,  $(C_2-C_6)$ alkenyl,  $(C_4-C_6)$ cycloalkyl,  $(C_4-C_6)$ alkoxy, aryl, aralkyl, aryloxy,  $(C_4-C_6)$ alkylcarbonyl, arylcarbonyl,  $(C_4-C_6)$ alkoxycarbonyl or aryloxy carbonyl;

$Y^1$  represents  $=O$  or  $=S$  group and  $Y^2$  and  $Y^3$  independently represent hydrogen, halogen, cyano, nitro, formyl, hydroxy, amino,  $=O$ ,  $=S$  group, or substituted or unsubstituted groups selected from  $(C_1-C_6)$ alkyl, hydroxy $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxy $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxycarbonyl, carboxy $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkylsulfonyl,  $(C_1-C_6)$ alkylcarbonylamino $(C_1-C_6)$ alkyl, arylcarbonylamino $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkylcarbonyloxy $(C_1-C_6)$ alkyl, amino $(C_1-C_6)$ alkyl, mono $(C_1-C_6)$ alkylamino, di $(C_1-C_6)$ alkylamino, arylamino,  $(C_1-C_6)$ alkoxy, aryl, aryloxy, aralkyl, heteroaryl, heteroaralkyl, heterocyclyl or heterocycloalkyl;

$Y^2$  and  $Y^3$  when present on adjacent carbon atoms together also form a substituted or unsubstituted 5 or 6 membered aromatic or non-aromatic cyclic structure, optionally containing one or two hetero atoms; which comprises: formylating the compound of formula (I) where  $R^1$  represents  $NHR^4$  wherein  $R^4$  represents hydrogen and  $Y^1$ ,  $Y^2$ ,  $Y^3$ ,  $R^2$ ,  $R^3$  and  $Z$  are as defined above, by using alkylformate.

15. (Currently amended) A process for the preparation of compound of formula (I)



where

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$R^1$  represents  $NHR^4$ , wherein  $R^4$  represents  $-C(=O)-R^{4a}$ , wherein  $R^{4a}$  represents  $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxy,  $(C_2-C_6)$ alkenyl, halo $(C_1-C_6)$ alkyl, aryloxy,  $(C_2-C_6)$ alkenyloxy, aryloxy carbonyl or  $(C_1-C_6)$ alkoxy carbonyl;

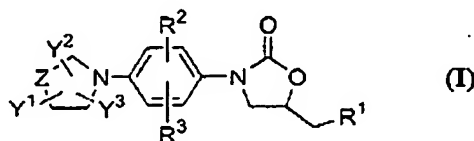
$R^2$  and  $R^3$  are same or different and independently represent hydrogen, halogen atom,  $(C_1-C_6)$ alkyl group, halo $(C_1-C_6)$ alkyl, cyano, nitro,  $SR^a$ ,  $NR^a$ ,  $OR^a$  where  $R^a$  represents substituted or unsubstituted  $(C_1-C_6)$ alkyl group, or halo $(C_1-C_6)$ alkyl;

$Z$  represents  $S[1]$  or  $O$ ,  $-CH$  or  $NR^b$  where  $R^b$  represents hydrogen, or substituted or unsubstituted  $(C_1-C_6)$ alkyl,  $(C_2-C_6)$ alkenyl,  $(C_4-C_6)$ cycloalkyl,  $(C_4-C_6)$ alkoxy, aryl, aralkyl, aryloxy,  $(C_4-C_6)$ alkyl carbonyl, aryl carbonyl,  $(C_4-C_6)$ alkoxy carbonyl or aryloxy carbonyl;

$Y^1$  represents  $=O$  or  $=S$  group and  $Y^2$  and  $Y^3$  independently represent hydrogen, halogen, cyano, nitro, formyl, hydroxy, amino,  $=O$ ,  $=S$  group, or substituted or unsubstituted groups selected from  $(C_1-C_6)$ alkyl, hydroxy $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxy $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxy carbonyl, carboxy $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkylsulfonyl,  $(C_1-C_6)$ alkyl carbonylamino $(C_1-C_6)$ alkyl, aryl carbonylamino $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkyl carbonyloxy $(C_1-C_6)$ alkyl, amino $(C_1-C_6)$ alkyl, mono $(C_1-C_6)$ alkylamino, di $(C_1-C_6)$ alkylamino, arylamino,  $(C_1-C_6)$ alkoxy, aryl, aryloxy, aralkyl, heteroaryl, heteroaralkyl, heterocyclyl or heterocycloalkyl;

$Y^2$  and  $Y^3$  when present on adjacent carbon atoms together also form a substituted or unsubstituted 5 or 6 membered aromatic or non-aromatic cyclic structure, optionally containing one or two hetero atoms; which comprise: acetylating the compound of formula (I) where  $R^1$  represents  $NHR^4$  wherein  $R^4$  represents hydrogen;  $Y^1$ ,  $Y^2$ ,  $Y^3$ ,  $R^2$ ,  $R^3$  and  $Z$  are as defined above, by using a halide.

16.(Currently amended) A process for the preparation of compound of formula (I)





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where

$R^1$  represents  $NHR^4$ , wherein  $R^4$  represents acetyl group;

$R^2$  and  $R^3$  are same or different and independently represent hydrogen, halogen atom,  $(C_1-C_6)$ alkyl group, halo $(C_1-C_6)$ alkyl, cyano, nitro,  $SR^a$ ,  $NR^a$ ,  $OR^a$  where  $R^a$  represents substituted or unsubstituted  $(C_1-C_6)$ alkyl group, or halo $(C_1-C_6)$ alkyl;

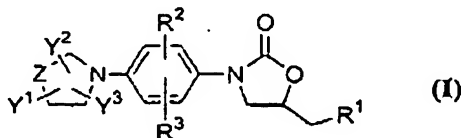
Z represents  $S[(:)]$  or  $O$ ,  $=CH$  or  $NR^b$  where  $R^b$  represents hydrogen, or

substituted or unsubstituted  $(C_1-C_6)$ alkyl,  $(C_2-C_6)$ alkenyl,  $(C_4-C_6)$ cycloalkyl,  $(C_4-C_6)$ alkoxy, aryl, aralkyl, aryloxy,  $(C_4-C_6)$ alkylcarbonyl, arylcarbonyl,  $(C_4-C_6)$ alkoxycarbonyl or aryloxy carbonyl;

$Y^1$  represents  $=O$  or  $=S$  group and  $Y^2$  and  $Y^3$  independently represent hydrogen, halogen, cyano, nitro, formyl, hydroxy, amino,  $=O$ ,  $=S$  group, or substituted or unsubstituted groups selected from  $(C_1-C_6)$ alkyl, hydroxy $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxy $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxycarbonyl, carboxy $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkylsulfonyl,  $(C_1-C_6)$ alkylcarbonylamino $(C_1-C_6)$ alkyl, arylcarbonylamino $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkylcarbonyloxy $(C_1-C_6)$ alkyl, amino $(C_1-C_6)$ alkyl, mono $(C_1-C_6)$ alkylamino, di $(C_1-C_6)$ alkylamino, arylamino,  $(C_1-C_6)$ alkoxy, aryl, aryloxy, aralkyl, heteroaryl, heteroaralkyl, heterocyclyl or heterocycloalkyl;

$Y^2$  and  $Y^3$  when present on adjacent carbon atoms together also form a substituted or unsubstituted 5 or 6 membered aromatic or non-aromatic cyclic structure, optionally containing one or two hetero atoms; ~~its derivatives, its analogs, its tautomeric forms,~~ its stereoisomers, its polymorphs, its pharmaceutically acceptable salts or its pharmaceutically acceptable solvates; which comprises: reacting compound of formula (I) where  $R^1$  represents azido group;  $Y^1$ ,  $Y^2$ ,  $Y^3$ ,  $R^2$ ,  $R^3$  and Z are as defined above, with thioacetic acid.

17. (Currently amended) A process for the preparation of compound of formula (I)



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where

$R^1$  represents  $NHR^4$ , wherein  $R^4$  represents  $-C(=S)-R^{4b}$ , wherein  $R^{4b}$  represents  $(C_1-C_6)$ alkyl, halo $(C_1-C_6)$ alkyl,  $-C(=O)-(C_1-C_6)$ alkoxy,  $-C(=O)$ -aryloxy,  $-C(=S)-(C_1-C_6)$ alkyl or  $-C(=S)$ -aryl;

$R^2$  and  $R^3$  are same or different and independently represent hydrogen, halogen atom,  $(C_1-C_6)$ alkyl group, halo $(C_1-C_6)$ alkyl, cyano, nitro,  $SR^a$ ,  $NR^a$ ,  $OR^a$  where  $R^a$  represents substituted or unsubstituted  $(C_1-C_6)$ alkyl group, or halo $(C_1-C_6)$ alkyl;

$Z$  represents  $S[[;]]$  or  $O$ ,  $-CH$  or  $NR^b$  where  $R^b$  represents hydrogen, or substituted or unsubstituted  $(C_1-C_6)$ alkyl,  $(C_2-C_6)$ alkenyl,  $(C_4-C_6)$ cycloalkyl,  $(C_4-C_6)$ alkoxy, aryl, aralkyl, aryloxy,  $(C_4-C_6)$ alkylcarbonyl, arylcarbonyl,  $(C_4-C_6)$ alkoxycarbonyl or aryloxy carbonyl;

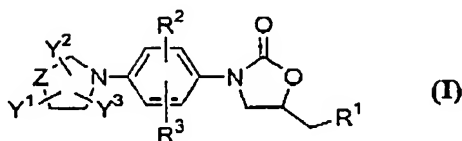
$Y^1$  represents  $=O$  or  $=S$  group and  $Y^2$  and  $Y^3$  independently represent hydrogen, halogen, cyano, nitro, formyl, hydroxy, amino,  $=O$ ,  $=S$  group, or substituted or unsubstituted groups selected from  $(C_1-C_6)$ alkyl, hydroxy $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxy $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxycarbonyl, carboxy $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkylsulfonyl,  $(C_1-C_6)$ alkylcarbonylamino $(C_1-C_6)$ alkyl, arylcarbonylamino $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkylcarbonyloxy $(C_1-C_6)$ alkyl, amino $(C_1-C_6)$ alkyl, mono $(C_1-C_6)$ alkylamino, di $(C_1-C_6)$ alkylamino, arylamino,  $(C_1-C_6)$ alkoxy, aryl, aryloxy, aralkyl, heteroaryl, heteroaralkyl, heterocyclyl or heterocycloalkyl;

$Y^2$  and  $Y^3$  when present on adjacent carbon atoms together also form a substituted or unsubstituted 5 or 6 membered aromatic or non-aromatic cyclic structure, optionally containing one or two hetero atoms; its derivatives, its analogs, its tautomeric forms, its stereoisomers, its polymorphs, its pharmaceutically acceptable salts or its pharmaceutically acceptable solvates; which comprises: reacting the compound of formula (I) where  $R^1$  represents  $NHR^4$ , wherein  $R^4$  represents  $-C(=O)-R^{4b}$ , wherein  $R^{4b}$  represents  $(C_1-C_6)$ alkyl, halo $(C_1-C_6)$ alkyl,  $-C(=O)-(C_1-C_6)$ alkoxy,  $-C(=O)$ -aryloxy,  $-C(=S)-(C_1-C_6)$ alkyl or  $-C(=S)$ -aryl;  $Y^1$ ,  $Y^2$ ,  $Y^3$ ,  $R^2$ ,  $R^3$  and  $Z$  are as defined above, with 2,4-bis(methoxyphenyl)-1,3-dithia-2,4-diphosphetane-2,4-disulfide (Lawesson's reagent).

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18. (Currently amended)  
formula (I)

A process for the preparation of compound of



where

$R^1$  represents  $NHR^4$ , wherein  $R^4$  represents  $-C(=S)-SR^{4c}$  wherein  $(C_1-C_6)$ alkyl group;

$R^2$  and  $R^3$  are same or different and independently represent hydrogen, halogen atom,  $(C_1-C_6)$ alkyl group, halo $(C_1-C_6)$ alkyl, cyano, nitro,  $SR^a$ ,  $NR^a$ ,  $OR^a$  where  $R^a$  represents substituted or unsubstituted  $(C_1-C_6)$ alkyl group, or halo $(C_1-C_6)$ alkyl;

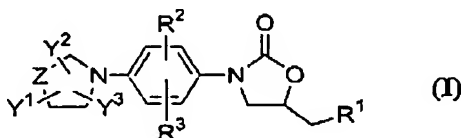
$Z$  represents  $S[[\cdot]]$  or  $O$ ,  $-CH$  or  $NR^b$  where  $R^b$  represents hydrogen, or substituted or unsubstituted  $(C_1-C_6)$ alkyl,  $(C_2-C_6)$ alkenyl,  $(C_4-C_6)$ cycloalkyl,  $(C_4-C_6)$ alkoxy, aryl, aralkyl, aryloxy,  $(C_4-C_6)$ alkylcarbonyl, arylcarbonyl,  $(C_4-C_6)$ alkoxycarbonyl or aryloxy carbonyl;

$Y^1$  represents  $=O$  or  $=S$  group and  $Y^2$  and  $Y^3$  independently represent hydrogen, halogen, cyano, nitro, formyl, hydroxy, amino,  $=O$ ,  $=S$  group, or substituted or unsubstituted groups selected from  $(C_1-C_6)$ alkyl, hydroxy $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxy $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxycarbonyl, carboxy $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkylsulfonyl,  $(C_1-C_6)$ alkylcarbonylamino $(C_1-C_6)$ alkyl, arylcarbonylamino $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkylcarbonyloxy $(C_1-C_6)$ alkyl, amino $(C_1-C_6)$ alkyl, mono $(C_1-C_6)$ alkylamino, di $(C_1-C_6)$ alkylamino, arylamino,  $(C_1-C_6)$ alkoxy, aryl, aryloxy, aralkyl, heteroaryl, heteroaralkyl, heterocyclyl or heterocycloalkyl;  $Y^2$  and  $Y^3$  when present on adjacent carbon atoms together also form a substituted or unsubstituted 5 or 6 membered aromatic or non-aromatic cyclic structure, optionally containing one or two hetero atoms; its derivatives, its analogs, its tautomeric forms, its stereoisomers, its polymorphs, its pharmaceutically acceptable salts or its pharmaceutically acceptable solvates; which comprises: reacting the compound of formula (I) where  $R^1$  represents  $NHR^4$ , wherein  $R^4$  represents hydrogen;  $Y^1$ ,  $Y^2$ ,  $Y^3$ ,  $R^2$ ,  $R^3$  and  $Z$  are

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as defined above, by reacting with carbondisulfide, with an alkylhalide and a base selected from  $\text{Et}_3\text{N}$ , diisopropylethylamine,  $\text{K}_2\text{CO}_3$ ,  $\text{NaH}$  or  $\text{KOt-Bu}$ .

19. (Currently amended) A process for the preparation of compound of formula (I)



where

$\text{R}^1$  represents  $\text{NHR}^4$ , wherein  $\text{R}^4$  represents  $-\text{C}(=\text{S})-\text{OR}^{4d}$ , wherein  $\text{R}^{4d}$  represents  $(\text{C}_1-\text{C}_6)\text{alkyl}$ ,  $\text{cyclo}(\text{C}_3-\text{C}_6)\text{alkyl}$ ,  $-(\text{C}=\text{O})-(\text{C}_1-\text{C}_6)\text{alkyl}$  group substituted with fluorine; aryl, halo $(\text{C}_1-\text{C}_6)\text{alkyl}$ , hydroxy $(\text{C}_1-\text{C}_6)\text{alkyl}$ ,  $(\text{C}_1-\text{C}_6)\text{alkoxy}(\text{C}_1-\text{C}_6)\text{alkyl}$  or  $(\text{C}_2-\text{C}_6)\text{alkenyl}$ ;

$\text{R}^2$  and  $\text{R}^3$  are same or different and independently represent hydrogen, halogen atom,  $(\text{C}_1-\text{C}_6)\text{alkyl}$  group, halo $(\text{C}_1-\text{C}_6)\text{alkyl}$ , cyano, nitro,  $\text{SR}^a$ ,  $\text{NR}^a$ ,  $\text{OR}^a$  where  $\text{R}^a$  represents substituted or unsubstituted  $(\text{C}_1-\text{C}_6)\text{alkyl}$  group, or halo $(\text{C}_1-\text{C}_6)\text{alkyl}$ ;

$\text{Z}$  represents  $\text{S}[[\text{r}]]$  or  $\text{O}$ ,  $-\text{CH}$  or  $\text{NR}^b$  where  $\text{R}^b$  represents hydrogen, or substituted or unsubstituted  $(\text{C}_4-\text{C}_6)\text{alkyl}$ ,  $(\text{C}_2-\text{C}_6)\text{alkenyl}$ ,  $(\text{C}_4-\text{C}_6)\text{cycloalkyl}$ ,  $(\text{C}_4-\text{C}_6)\text{alkoxy}$ , aryl, aralkyl, aryloxy,  $(\text{C}_4-\text{C}_6)\text{alkylcarbonyl}$ , arylcarbonyl,  $(\text{C}_4-\text{C}_6)\text{alkoxycarbonyl}$  or aryloxy carbonyl;

$\text{Y}^1$  represents  $=\text{O}$  or  $=\text{S}$  group and  $\text{Y}^2$  and  $\text{Y}^3$  independently represent hydrogen, halogen, cyano, nitro, formyl, hydroxy, amino,  $=\text{O}$ ,  $=\text{S}$  group, or substituted or unsubstituted groups selected from  $(\text{C}_1-\text{C}_6)\text{alkyl}$ , hydroxy $(\text{C}_1-\text{C}_6)\text{alkyl}$ ,  $(\text{C}_1-\text{C}_6)\text{alkoxy}(\text{C}_1-\text{C}_6)\text{alkyl}$ ,  $(\text{C}_1-\text{C}_6)\text{alkoxycarbonyl}$ , carboxy $(\text{C}_1-\text{C}_6)\text{alkyl}$ ,  $(\text{C}_1-\text{C}_6)\text{alkylsulfonyl}$ ,  $(\text{C}_1-\text{C}_6)\text{alkylcarbonylamino}(\text{C}_1-\text{C}_6)\text{alkyl}$ , arylcarbonylamino $(\text{C}_1-\text{C}_6)\text{alkyl}$ ,  $(\text{C}_1-\text{C}_6)\text{alkylcarbonyloxy}(\text{C}_1-\text{C}_6)\text{alkyl}$ , amino $(\text{C}_1-\text{C}_6)\text{alkyl}$ , mono $(\text{C}_1-\text{C}_6)\text{alkylamino}$ , di $(\text{C}_1-\text{C}_6)\text{alkylamino}$ , arylamino,  $(\text{C}_1-\text{C}_6)\text{alkoxy}$ , aryl, aryloxy, aralkyl, heteroaryl, heteroaralkyl, heterocyclyl or heterocycloalkyl;

$\text{Y}^2$  and  $\text{Y}^3$  when present on adjacent carbon atoms together also

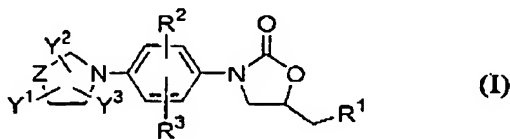
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form a substituted or unsubstituted 5 or 6 membered aromatic or non-aromatic cyclic structure, optionally containing one or two hetero atoms; ~~its derivatives, its analogs, its tautomeric forms,~~ its stereoisomers, its polymorphs, its pharmaceutically acceptable salts or its pharmaceutically acceptable solvates; which comprises:

(i) converting compound of formula (I) where  $R^1$  represents  $NHR^4$ , wherein  $R^4$  represents hydrogen atom;  $Y^1$ ,  $Y^2$ ,  $Y^3$ ,  $R^2$ ,  $R^3$  and  $Z$  are as defined above, to a compound of formula (I) where  $R^1$  represents isothiocyanate group and all other symbols are as defined above, by reacting with thiophosgene and

(ii) converting compound of formula (I) where  $R^1$  represents isothiocyanate group, to a compound of formula (I) where  $R^1$  represents  $NHR^4$ , wherein  $R^4$  represents  $-C(=S)-OR^{4d}$ , wherein  $R^{4d}$  represents  $(C_1-C_6)$ alkyl, cyclo $(C_3-C_6)$ alkyl,  $-(C=O)-(C_1-C_6)$ alkyl group substituted with fluorine; aryl, halo $(C_1-C_6)$ alkyl, hydroxy $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxy $(C_1-C_6)$ alkyl or  $(C_2-C_6)$ alkenyl and all symbols are as defined above, by reacting with alcohol.

20. (Currently amended) A process for the preparation of compound of formula (I)



where

R<sup>1</sup> represents NHR<sup>4</sup>, wherein R<sup>4</sup> represents —C(=S)—N(R'R''), R' represents hydrogen, (C<sub>1</sub>–C<sub>6</sub>)alkyl, (C<sub>2</sub>–C<sub>6</sub>)alkenyl, substituted or unsubstituted aralkyl, heteroaralkyl, hydroxy(C<sub>1</sub>–C<sub>6</sub>)alkyl, R'' represents hydrogen or (C<sub>1</sub>–C<sub>6</sub>)alkyl or R' and R'' together form a 5 or 6 membered cyclic structures containing one or two hetero atoms;

R<sup>2</sup> and R<sup>3</sup> are same or different and independently represent hydrogen, halogen atom, (C<sub>1</sub>-C<sub>6</sub>)alkyl group, halo(C<sub>1</sub>-C<sub>6</sub>)alkyl, cyano, nitro, SR<sup>a</sup>, NR<sup>a</sup>, OR<sup>a</sup> where R<sup>a</sup> represents substituted or unsubstituted (C<sub>1</sub>-C<sub>6</sub>)alkyl group, or halo(C<sub>1</sub>-C<sub>6</sub>)alkyl; Z represents S[[1]] or O, S[[1]], O, -CH or NR<sup>b</sup> where R<sup>b</sup> represents hydrogen, or substituted or unsubstituted (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>2</sub>-

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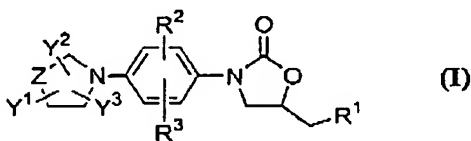
~~C<sub>6</sub>~~alkenyl, ~~(C<sub>1</sub>-C<sub>6</sub>)cycloalkyl~~, ~~(C<sub>1</sub>-C<sub>6</sub>)alkoxy~~, aryl, aralkyl, aryloxy, ~~(C<sub>1</sub>-C<sub>6</sub>)alkylcarbonyl~~, arylcarbonyl, ~~(C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl~~ or ~~aryloxycarbonyl~~;

Y<sup>1</sup> represents =O or =S group and Y<sup>2</sup> and Y<sup>3</sup> independently represent hydrogen, halogen, cyano, nitro, formyl, hydroxy, amino, =O, =S group, or substituted or unsubstituted groups selected from (C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl, carboxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonylamino (C<sub>1</sub>-C<sub>6</sub>)alkyl, arylcarbonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonyloxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, amino(C<sub>1</sub>-C<sub>6</sub>)alkyl, mono(C<sub>1</sub>-C<sub>6</sub>)alkylamino, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino, arylamino, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, aryl, aryloxy, aralkyl, heteroaryl, heteroaralkyl, heterocyclyl or heterocycloalkyl;

Y<sup>2</sup> and Y<sup>3</sup> when present on adjacent carbon atoms together also form a substituted or unsubstituted 5 or 6 membered aromatic or non-aromatic cyclic structure, optionally containing one or two hetero atoms; ~~its derivatives, its analogs, its tautomeric forms,~~ its stereoisomers, its polymorphs, its pharmaceutically acceptable salts or its pharmaceutically acceptable solvates; which comprises: converting compound of formula (I) where R<sup>1</sup> represents isothiocyanate group and all other symbols are as defined above by passing ammonia gas or by reacting with amine.

Claims 21-30. Cancel

31. (Original) A pharmaceutical composition comprising a compound of formula (I)



as claimed in claim 1 and a pharmaceutically acceptable carrier, diluent, excipient or solvate.

32. (Original) A pharmaceutical composition as claimed in claim 31, in the form of a tablet, capsule, powder, syrup, solution or suspension.

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33. (Currently amended) A method for [[ef]] treating a bacterial infection comprising administering an effective amount of a compound of formula (I) as claimed in claim 1 to a patient in need thereof.

34. (Currently amended) A method for [[ef]] treating a bacterial infection comprising administering an effective amount of a pharmaceutical composition as claimed in claim 31 to a patient in need thereof.

35. (Original) A pharmaceutical composition comprising a compound as claimed in claim 6 and a pharmaceutically acceptable carrier, diluent, excipient or solvate.

36. (Original) A pharmaceutical composition as claimed in claim 35, in the form of a tablet, capsule, powder, syrup, solution or suspension.

37. (Currently amended) A method for [[ef]] treating a bacterial infection comprising administering an effective amount of a compound as claimed in claim 6 to a patient in need thereof.

38. (Currently amended) A method [[ef]] for treating a bacterial infection comprising administering an effective amount of a pharmaceutical composition as claimed in claim 35 to a patient in need thereof.

Claims 39 and 40. (Cancel)

41. (Original) The compound according to claim 1, wherein the substituents on R<sup>a</sup> are selected from hydroxy, halogen, nitro, amino, alkoxy, carboxy or cyano,

42. (Original) A compound according to claim 7, wherein the salts of organic bases are selected from N,N'-diacetylenediamine, betaine, caffeine, 2-diethylaminoethanol, 2-dimethylaminoethanol, N-ethylmorpholine, N-ethylpiperidine, glucamine, glucosamine, hydrabamine, isopropylamine,

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methylglucamine, morpholine, piperazine, piperidine, procaine, purines, theobromine, triethylamine, trimethylamine, tripropylamine, tromethamine, diethanolamine, meglumine, ethylenediamine, N,N'-diphenylethylenediamine, N,N'-dibenzylethylenediamine, N-benzyl phenylethylamine, choline, choline hydroxide, dicyclohexylamine, metformin, benzylamine, phenylethylamine, dialkylamine, trialkylamine, thiamine, aminopyrimidine, aminopyridine, purine, or spermidine.

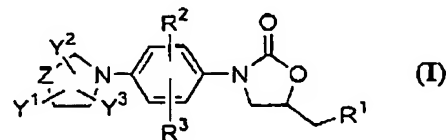
43. (Original) A compound according to claim 7, wherein the salts of chiral bases are selected from alkylphenylamine, glycinol, phenyl glycinol.

44. (Original) A compound according to claim 7, wherein the salts of natural amino acids are selected from glycine, alanine, valine, leucine, isoleucine, norleucine, tyrosine, cystine, cysteine, methionine, proline, hydroxy proline, histidine, ornithine, lysine, arginine, serine, threonine, or phenylalanine.

45. (Original) A compound according to claim 7, wherein the salts of unnatural amino acid, substituted amino acids are selected from D-isomers, guanidine, substituted guanidine wherein the substituents are selected from nitro, amino, alkyl selected from methyl, ethyl, and propyl; alkenyl selected from ethenyl, propenyl, or butenyl; alkynyl selected from ethynyl, or propynyl.

46. (Original) A compound according to claim 7, wherein the addition salts are selected from sulphates, nitrates, phosphates, perchlorates, borates, halides, acetates, tartrates, maleates, citrates, succinates, palmoates, methanesulphonates, benzoates, salicylates, hydroxynaphthoates, benzenesulfonates, ascorbates, glycerophosphates, or ketoglutarates.

47. (Currently amended) A process for the preparation of compound of formula (I),





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where

$R^1$  represents halogen atom;

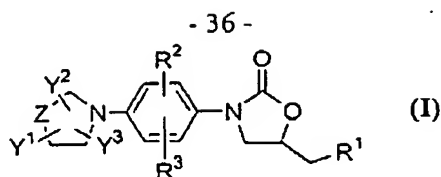
$R^2$  and  $R^3$  are same or different and independently represent hydrogen, halogen atom,  $(C_1-C_6)$ alkyl group, halo $(C_1-C_6)$ alkyl, cyano, nitro,  $SR^a$ ,  $NR^a$ ,  $OR^a$  where  $R^a$  represents substituted or unsubstituted  $(C_1-C_6)$ alkyl group, or halo $(C_1-C_6)$ alkyl;

Z represents  $S[[.]]$  or  $O$ ,  $=CH$  or  $NR^b$  where  $R^b$  represents hydrogen, or substituted or unsubstituted  $(C_1-C_6)$ alkyl,  $(C_2-C_6)$ alkenyl,  $(C_4-C_6)$ cycloalkyl,  $(C_1-C_6)$ alkoxy, aryl, aralkyl, aryloxy,  $(C_1-C_6)$ alkylcarbonyl, arylcarbonyl,  $(C_1-C_6)$ alkoxycarbonyl or aryloxy carbonyl;

$Y^1$  represents  $=O$  or  $=S$  group and  $Y^2$  and  $Y^3$  independently represent hydrogen, halogen, cyano, nitro, formyl, hydroxy, amino,  $=O$ ,  $=S$  group, or substituted or unsubstituted groups selected from  $(C_1-C_6)$ alkyl, hydroxy $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxy $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxycarbonyl, carboxy $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkylsulfonyl,  $(C_1-C_6)$ alkylcarbonylamino $(C_1-C_6)$ alkyl, arylcarbonylamino $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkylcarbonyloxy $(C_1-C_6)$ alkyl, amino $(C_1-C_6)$ alkyl, mono $(C_1-C_6)$ alkylamino, di $(C_1-C_6)$ alkylamino, arylamino,  $(C_1-C_6)$ alkoxy, aryl, aryloxy, aralkyl, heteroaryl, heteroaralkyl, heterocyclyl or heterocycloalkyl;

$Y^2$  and  $Y^3$  when present on adjacent carbon atoms together also form a substituted or unsubstituted 5 or 6 membered aromatic or non-aromatic cyclic structure, optionally containing one or two hetero atoms;  $[[.]]$ -its derivatives, its analogs, its tautomeric forms, its stereoisomers, its polymorphs, its pharmaceutically acceptable salts or its pharmaceutically acceptable solvates; which comprises: reacting a compound of formula (I) where  $R^1$  represents hydroxy group and all other symbols are as defined above, with tetrahalomethane group and  $PPh_3$  or  $P(alkyl)_3$ .

48. (Currently amended) A process for the preparation of compound of formula (I).



where

$R^1$  represents SH group;

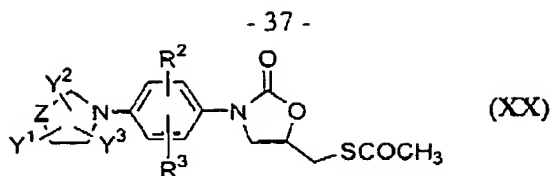
$R^2$  and  $R^3$  are same or different and independently represent hydrogen, halogen atom,  $(C_1-C_6)$ alkyl group, halo $(C_1-C_6)$ alkyl, cyano, nitro,  $SR^a$ ,  $NR^a$ ,  $OR^a$  where  $R^a$  represents substituted or unsubstituted  $(C_1-C_6)$ alkyl group, or halo $(C_1-C_6)$ alkyl;

Z represents S[[;]] or O, =CH or  $NR^b$  where  $R^b$  represents hydrogen, or substituted or unsubstituted  $(C_1-C_6)$ alkyl,  $(C_2-C_6)$ alkenyl,  $(C_3-C_6)$ cycloalkyl,  $(C_1-C_6)$ alkoxy, aryl, aralkyl, aryloxy,  $(C_1-C_6)$ alkylcarbonyl, arylcarbonyl,  $(C_1-C_6)$ alkoxycarbonyl or aryloxy carbonyl;

$Y^1$  represents =O or =S group and  $Y^2$  and  $Y^3$  independently represent hydrogen, halogen, cyano, nitro, formyl, hydroxy, amino, =O, =S group, or substituted or unsubstituted groups selected from  $(C_1-C_6)$ alkyl, hydroxy $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxy $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxycarbonyl, carboxy $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkylsulfonyl,  $(C_1-C_6)$ alkylcarbonylamino $(C_1-C_6)$ alkyl, arylcarbonylamino $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkylcarbonyloxy $(C_1-C_6)$ alkyl, amino $(C_1-C_6)$ alkyl, mono $(C_1-C_6)$ alkylamino, di $(C_1-C_6)$ alkylamino, arylamino,  $(C_1-C_6)$ alkoxy, aryl, aryloxy, aralkyl, heteroaryl, heteroaralkyl, heterocyclyl or heterocycloalkyl;

$Y^2$  and  $Y^3$  when present on adjacent carbon atoms together also form a substituted or unsubstituted 5 or 6 membered aromatic or non-aromatic cyclic structure, optionally containing one or two hetero atoms; ~~its derivatives, its analogs, its tautomeric forms,~~ its stereoisomers, its polymorphs, its pharmaceutically acceptable salts or its pharmaceutically acceptable solvates; which comprises:

(i) reacting the compound of formula (I) where  $R^1$  represents halogen atom, to produce a compound of formula (XX),



where all symbols are as defined above, with a base and thioacetic acid,

(ii) reacting the compound of formula (XX), to produce a compound of formula (I) where R<sup>1</sup> represents SH group and all other symbols are as defined earlier, with base.

49. (Currently amended) A compound according to claim 6, wherein the pharmaceutically acceptable salt is selected from Li, Na, K, Ca, Mg, Fe, Cu, Zn, or Mn ; or salts of organic bases, chiral bases, natural amino acids, unnatural amino acids; substituted amino acids, guanidine, substituted guanidine salts; ammonium, substituted ammonium salts, aluminum salts and acid addition salts.

50. (Currently amended) A method for ~~[[ef]]~~ treating a bacterial infections infection comprising administering an effective amount of a pharmaceutical composition as claimed in claim 32 to a patient in need thereof.

51. (Currently amended) A method for ~~[[ef]]~~ treating a bacterial infections infection comprising administering a pharmaceutical composition as claimed in claim 32 to a patient in need thereof.